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1 [A hybrid execution model for fine-grained languages on distributed memory](#)

 [multicomputers](#)

John Plevyak, Vijay Karamcheti, Xingbin Zhang, Andrew A. Chien

December 1995 **Supercomputing '95: Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM

Full text available:  [Html](#) (59.68 KB),  [Pdf](#) (419.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 15, Citation Count: 6

While fine-grained concurrent languages can naturally capture concurrency in many irregular and dynamic problems, their flexibility has generally resulted in poor execution efficiency. In such languages the computation consists of many small threads which ...

2 [MPICH-GQ: quality-of-service for message passing programs](#)

Alain J. Roy, Ian Foster, William Gropp, Brian Toonen, Nicholas Karonis, Volker Sander

November 2000 **Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  [Pdf](#) (140.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 21, Citation Count: 3

Parallel programmers typically assume that all resources required for a program's execution are dedicated to that purpose. However, in local and wide area networks, contention for shared networks, CPUs, and I/O systems can result in significant variations ...

Keywords: MPI, Quality of Service, Differentiated Services, TCP

3 Test of future system-on-chips

Yervant Zorian, Sujit Dey, Michael J. Rodgers

November 2000 **ICCAD '00**: Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design

Publisher: IEEE Press

Full text available:  Pdf (140.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 82, Citation Count: 4

Spurred by technology leading to the availability of millions of gates per chip, system-level integration is evolving as a new paradigm, allowing entire systems to be built on a single chip. Being able to rapidly develop, manufacture, test, debug and ...

4 A transport layer approach for achieving aggregate bandwidths on multi-homed mobile hosts

 Hung-Yun Hsieh, Raghupathy Sivakumar

September 2002 **MobiCom '02**: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM 

Full text available:  Pdf (380.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 70, Citation Count: 32

Due to the availability of a wide variety of wireless access technologies, a mobile host can potentially have subscriptions and access to more than one wireless network at a given time. In this paper, we consider such a multi-homed mobile host, and address ...

Keywords: bandwidth aggregation, multi-homed mobile host, striping

5 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA

 intrusion detection system evaluations as performed by Lincoln Laboratory

November 2000 **Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4

Publisher: ACM 

Full text available:  Pdf (156.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 353, Citation Count: 56

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

6 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **CASCON '97**: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available:  [Pdf](#) (4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 395, Citation Count: 0

Understanding distributed applications is a tedious and difficult task.

Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

7 [An empirical performance evaluation of scalable scientific applications](#)

Jeffrey S. Vetter, Andy Yoo

November 2002 **Supercomputing '02**: Proceedings of the 2002 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society Press

Full text available:  [Pdf](#) (1.06 MB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 30, Citation Count: 12

8 [The intrinsic problems of structural heterogeneity and an approach to their solution](#)

Theo Härdter, Günter Sauter, Joachim Thomas

April 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (132.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 45, Citation Count: 4

This paper focuses on the problems that arise when integrating data from heterogeneous sources in a single, unified database view. At first, we give a detailed analysis of the kinds of structural heterogeneity that occur when unified views are derived ...

Keywords: Heterogeneity, Legacy systems, Mapping language, Schema integration, Schema mapping, Updatable views

9 Multiple open services: a new approach to service provision in open hypermedia systems



Uffe Kock Will, David L. Hicks, Peter J. Nürnberg

September 2001 **HYPertext '01: Proceedings of the 12th ACM conference on Hypertext and Hypermedia**

Publisher: ACM

Full text available: Pdf (329.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 16, Citation Count: 16

Over the past decade, hypermedia systems have become increasingly open, distributed, and modular. As a direct result of this, open hypermedia systems have been increasingly successful in providing middleware services such as linking to a large set of ...

Keywords: Construct, component technology, component-based open hypermedia systems, hypermedia, middleware services, open service provision

10 WMS and GML based interoperable web mapping system



Shashi Shekhar, Ranga Raju Vatsavai, Namita Sahay, Thomas E. Burk, Stephen Lime

November 2001 **GIS '01: Proceedings of the 9th ACM international symposium on Advances in geographic information systems**

Publisher: ACM

Full text available: Pdf (1.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 110, Citation Count: 2

Recently the World Wide Web has become a popular vehicle for information distribution and web based geographic information system (GIS) are rapidly evolving and adapting to these new environments. The main hindrance for building true interoperable ...

Keywords: DOM, DTD, GIS, GML, SAX, WMS, XML Schema, XSLT

11 Locating and accessing data repositories with WebSemantics

George A. Mihaila, Louisa Paschid, Anthony Tomasic

August 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (130.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 32, Citation Count: 1

Many collections of scientific data in particular disciplines are available today on the World Wide Web. Most of these data sources are compliant with some standard for interoperable access. In addition, sources may support a common semantics, i.e., ...

Keywords: Data discovery, Data integration, Mediators, Query languages, World Wide Web, XML

12 Challenges and opportunities in broadband and wireless communication designs

Jan M. Rabaey, Miodrag Potkonjak, Farinaz Koushanfar, Suet Fei Li, Tim Tuan

November 2000 **ICCAD '00: Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Press

Full text available:  Pdf (295.17 KB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 115, Citation Count: 3

Communication designs form the fastest growing segment of the semiconductor market. Both network processors and wireless chipsets have been attracting a great deal of research attention, financial resources and design efforts. However, further progress ...

13 Standards for system-level design: practical reality or solution in search of a question?

Christopher K. Lennard, Patrick Schaumont, Gjalt de Jong, Anssi Haverinen, Pete Hardee

January 2000 **DATE '00: Proceedings of the conference on Design, automation and test in Europe**

Publisher: ACM

Full text available:  Publisher Site,  Pdf (74.65 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 6, Citation Count: 15

14 Paranoid Penguin: Designing and Using DMZ Networks to Protect Internet Servers

Mick Bauer

March 2001 **Linux Journal**, Volume 2001 Issue 83es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  Html (28.91 KB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 54, Citation Count: 0

15 MPI and Java-MPI: contrasts and comparisons of low-level communication performance

Vladimir Getov, Paul Gray, Vaidey Sunderam

January 1999 **Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM

Full text available:  Pdf (96.21 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 6

16 [Reconsidering custom memory allocation](#)

 [Emery D. Berger, Benjamin G. Zorn, Kathryn S. McKinley](#)

November **OOPSLA '02**: Proceedings of the 17th ACM SIGPLAN conference on 2002 Object-oriented programming, systems, languages, and applications

Publisher: ACM 

Full text available:  [Pdf \(344.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 181, Citation Count: 26

Programmers hoping to achieve performance improvements often use custom memory allocators. This in-depth study examines eight applications that use custom allocators. Surprisingly, for six of these applications, a state-of-the-art general-purpose allocator ...

Also published in:

November 2002 **SIGPLAN Notices** Volume 37 Issue 11

17 [A multi-thread safe foundation for scene graphs and its extension to clusters](#)

 [G. Voß, J. Behr, D. Reiners, M. Roth](#)

September **EGPGV '02**: Proceedings of the Fourth Eurographics Workshop on 2002 Parallel Graphics and Visualization

Publisher: Eurographics Association

Full text available:  [Pdf \(119.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 87, Citation Count: 9

One of the main shortcomings of current scene graphs is their inability to support multi-thread safe data structures. This work describes the general framework used by the OpenSG scene graph system to enable multiple concurrent threads to independently ...

18 [A network-failure-tolerant message-passing system for terascale clusters](#)

 [Richard L. Graham, Sung-Eun Choi, David J. Daniel, Nehal N. Desai, Ronald G. Minnich, Craig E. Rasmussen, L. Dean Risinger, Mitchel W. Sukalski](#)

June **ICS '02**: Proceedings of the 16th international conference on 2002 Supercomputing

Publisher: ACM 

Full text available:  [Pdf \(148.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation Count: 9

The Los Alamos Message Passing Interface (LA-MPI) is an end-to-end network-failure-tolerant message-passing system designed for terascale clusters. LA-MPI is a standard-compliant implementation of MPI designed to tolerate network-related failures including ...

Keywords: MPI, fault tolerance, message passing

19 [The design and performance of a pluggable protocols framework for real-time distributed object computing middleware](#)

Carlos O'Ryan, Fred Kuhns, Douglas C. Schmidt, Ossama Othman, Jeff Parsons

April 2000 **Middleware '00: IFIP/ACM International Conference on Distributed systems platforms**

Publisher: Springer-Verlag New York, Inc.

Full text available:  [PDF \(231.64 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 55, Citation Count: 14

To be an effective platform for performance-sensitive real-time and embedded applications, off-the-shelf CORBA middleware must preserve the communication-layer quality of service (QoS) properties of applications end-to-end. However, the standard CORBA ...

20 [Effective timestamping in databases](#)

Kristian Torp, Christian S. Jensen, Richard Thomas Snodgrass

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available:  [PDF \(198.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 86, Citation Count: 9

Many existing database applications place various timestamps on their data, rendering temporal values such as dates and times prevalent in database tables. During the past two decades, several dozen temporal data models have appeared, all with timestamps ...

Keywords: Timestamping, Transactions

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